

Datasheet for ABIN7561614
P2RX4 Protein (AA 1-388) (His tag)



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Overview

Quantity:	1 mg
Target:	P2RX4
Protein Characteristics:	AA 1-388
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This P2RX4 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat P2rx4 Protein expressed in mammalien cells.
Sequence:	MAGCCSVLGS FLFEYDTPRI VLIRSRKVGL MNRVVQLLIL AYVIGWVFW EKG YQETDSV VSSVTTKAKG VAVTNTSQLG FRIWDVADYV VPAQEENSLF IMTNMIVTVN QTQGTCP EIP DKT SICDSDA NCTLGSSDTH SSGIGTGRCV PFNASVKTCE VAAWCPVEND AGVPTPAFLK AAENFTLLVK NNIWYPKFNF SKRNILPNIT TSYLKSCIYN ARTDPFCPIF RLGQIVADAG HSFQEMAVEG GIMGIQIKWD CNLDRAASHC LPRYSFRRLD TRDLEHNVSP GYNFRFAKYY RDLAGNEQRT LTKAYGIRFD IIVFGKAGKF DIIPTMINVG SGLALLGVAT VLCDVIVLYC MKKRYYYRDK KYKYVEDYEQ GLSGEMNQ Sequence without tag. The proposed Purification- Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris Page, Western Blot

Grade: custom-made

Target Details

Target: P2RX4

Alternative Name: P2rx4 ([P2RX4 Products](#))

Background: P2X purinoceptor 4 (P2X4) (ATP receptor) (Purinergic receptor),FUNCTION: ATP-gated nonselective transmembrane cation channel permeable to potassium, sodium and calcium. Activated by extracellularly released ATP, it plays multiple role in immunity and central nervous system physiology (PubMed:26456657, PubMed:35119925). Plays a key role in initial steps of T-cell activation and Ca(2+) microdomain formation (PubMed:35119925). Participates also in basal T-cell activity without TCR/CD3 stimulation (PubMed:35119925). Promotes the differentiation and activation of Th17 cells via expression of retinoic acid-related orphan receptor C/RORC (By similarity). Upon activation, drives microglia motility via the PI3K/Akt pathway (PubMed:17299767). Could also function as an ATP-gated cation channel of lysosomal membranes (PubMed:27477609). {ECO:0000250|UniProtKB:Q99571, ECO:0000269|PubMed:17299767, ECO:0000269|PubMed:26456657, ECO:0000269|PubMed:27477609, ECO:0000269|PubMed:35119925}.

Molecular Weight: 43.4 kDa

UniProt: [Q9JJX6](#)

Target Details

Pathways: [Synaptic Membrane](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months